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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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OPERATOR, ORGANIZATIONAL
AND DIRECT SUPPORT
MAINTENANCE MANUAL
INCLUDING
REPAIR PARTS AND SPECIAL TOOL LISTS

CUTTER, PAPER, GUILLOTINE (CHALLENGE MACHINERY MODEL 305 HB) FSN 3610-689-5705

This copy is a reprint which includes current pages from Change 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY
JANUARY 1969

SAFETY PRECAUTIONS

When changing knives be sure to back off knife adjusting screws for proper clearance of new knife.

When cutter is shipped with table removed, be sure to fasten center brace to table with 1/2 inch bolts when table is installed.

Change No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D. C., 1 November 1972

Operator, Organizational and Direct Support Maintenance Manual Including Repair Parts and Special Tool Lists CUTTER, PAPER, GUILLOTINE (CHALLENGE MACHINERY MODEL 305HB) FSN 3610-689-5705

TM 5-3610-245-13, 10 January 1969, is changed as follows:

Page A-1. Appendix A is superseded as follows:

APPENDIX A BASIC ISSUE ITEMS LIST AND ITEMS TROOP INSTALLED OR AUTHORIZED

Section I. INTRODUCTION

A-1. Scope

This appendix lists items required by the operator for operation of the paper cutter.

A-2. General

This list is divided into the following sections:

- a. Basic Issue Items List-Section II. Not applicable.
- b. Items Troop Installed or Authorized List—Section III. A list of items in alphabetical sequence, which at the discretion of the unit commander may accompany the paper cutter. These items are NOT subject to turn-in with the paper cutter when evacuated.

A-3. Explanation of Columns

The following provides an explanation of columns in the tabular list of Basic Issue Items List, Section II, and Items Troop Installed or Authorized, Section III.

a. Source, Maintenance, and Recoverability Code(s) (SMR):

(1) Source Code, indicates the source for the listed item. Source codes are:

P Repair parts, special tools and test equipment supplied from GSA/DSA or Army supply system and authorized for use at indicated maintenance levels.

P2 Repair parts, special tools and test equipment which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in

(2) Maintenance Code, indicates the lowest level of meintenance authorized to install the listed item. The maintenance level code is:

Code Explanation
C Crew/Operator

the supply system.

(3) Recoverability Code, indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are non-recoverable. Recoverability codes are:

Code Explanation

R

Applied to repair parts (assemblies and components), special tools and test equipment which are considered economically reparable at direct and general support maintenance levels.

S Repair parts, special tools, test equipment and assemblies which are economically reparable at DSU and GSU activities and which normality are furnished by supply on an exchange basis

b. Federal Stock Number. This column indicates the Federal Stock Number assigned to the item and will be used for requisitioning purposes.

c. Description. This column indicates the Federal tem name and any additional description of the tem required.

d. Unit of Measure (U/M). A 2 character alphapetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. Quantity Furnished With Equipment (BIIL only). This column indicates the quantity of an item furnished with the equipment.

f. Quantity Authorized (Items Troop Installed or Authorized Only). This column indicates the quantity of the item authorized to be used with the equipment.

g. Illustration (BIIL only). This column is divided as follows:

(1) Figure number. Indicates the figure number of the illustration in which the item is shown.

(2) Item number. Indicates the callout number used to reference the item in the illustration.

Section III. ITEMS TROOP INSTALLED OR AUTHORIZED LIST

(1)	(1) (2)				
SMR Code	Federal stock number	Description	Unit of Mess	Qty Auth	
		Reference Number & Mfr. Code Usable on Code			
PO	3610-116-6932	*GUARD, KNIFE	EA	1	
PO	3610-116-6933	*KNIFE, CUTTER	EA	1	
		*Listed for identification purposes only. Appendix C this manual is the authorization for this item and is to be cited as the basis for any requisition.			
PC	3610-777-5460	HOOK, STICK EXTRACTOR	EA	1	
PC	3610-777-5427	LIFTER, KNIFE	EA	2	
PC	5120-222-8852	SCREWDRIVER, FLAT TIP 4 IN. LG	EA	1	
PC	3610-116-6935	STICK, CUTTING	EA	3	
PC	5120-449-8083	WRENCH, OPEN END ADJUSTABLE	EA	ĭ	
PC	5120-277-2307	WRENCH, OPEN DOUBLE HEAD, 5/16 IN. x 3/8 IN.	EA	i	
PC	3610-777-5470	WRENCH, "T" HEX 5/16 IN. X 9 1/4 IN. LG	EA	i	
			Ja	•	

By Order of the Secretary of the Army:

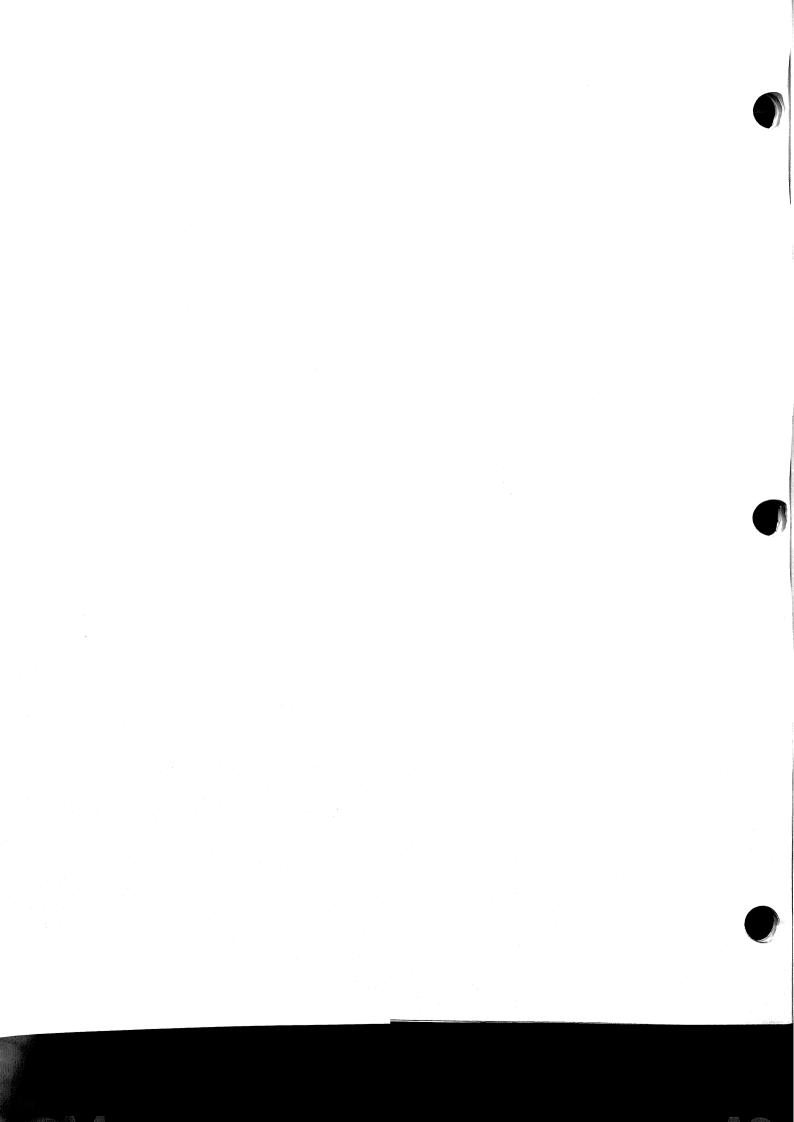
CREIGHTON W. ABRAMS General United States Army Chief of Staff

Official:

VERNE L. BOWERS, Major General, United States Army The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-25A (qty rqr block No. 834) organizational maintenance requirements for Cutter. Paper.



TM 5-3610-245-13

TECHNICAL MANUAL

HEADQUARTERS

DEPARTMENT OF THE ARMY

NO. 5-3610-245-13

WASHINGTON, D. C., 10 JANUARY 1969

OPERATOR, ORGANIZATIONAL AND DIRECT SUPPORT
MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

CUTTER, PAPER, GUILLOTINE (CHALLENGE MACHINERY MODEL 305 HB) (FSN 3610-689-5705)

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SECTION I.

INSTALLATION AND OPERATING INSTRUCTIONS

General

- a. These instructions are published for the use of the personnel to whom the paper cutter is issued. They provide information on the installation and operation, knife adjustment, troubleshooting, grinding knives and part identification.
- b. Appendix A contains the basic issue items list. Appendix B contains the maintenance allocation chart. Appendic C contains the mission essential repair parts.

Installation-

Cutter is shipped with Knife, Backgage Tape and Operating Lever removed unless otherwise specified.

Remove all crating material except clamp protecting board under clamp.

Attach Left Hand Operating Lever (B).

Have motor wired to proper current and voltage and be sure that motor is turning in direction as indicated by arrow on motor and hydraulic unit.

With motor turned on, move lever (B) to left to raise knife-bar and lever (C) back to raise clamp.

Remove Oil Seal Plug from Oil Reservoir and Replace with Breather Cap—

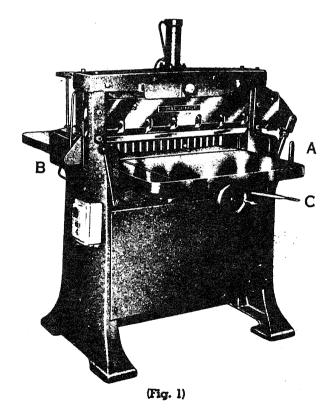
Thoroughly clean all machined surfaces of cutter and oil all bearings and working parts.

Operation—

To operate knife-bar, be sure to move Safety Lever (A) to left first, then move operating Lever (B) to right and hold it there until knife-bar reaches bottom of stroke, then release lever and knife-bar will return to top position automatically.

If Lever (B) is moved first, it will jam the safety latch. When this happens, move Lever (B) slightly to the left and then operate controls as stated above.

Clamp operation is controlled by Lever (C), move this Lever forward to bring clamp down. To raise clamp, push Lever back.

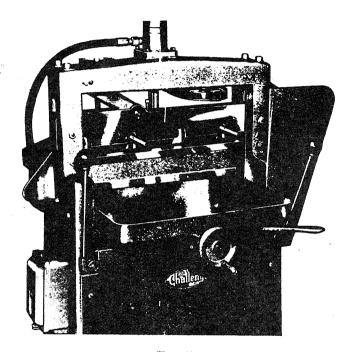


To Install Knife-

Back off knife adjusting screws for proper clearance. Enter threaded portion of knife-lifters into holes in knife to correspond with slotted holes in knife-bar (illustration shown is Style 193 Power Cutter) and place knife in recess of knife-bar with knife-lifters fastened sufficiently to hold knife in position, enter knife-bolts with washers into remaining holes of knife and replace knife-lifters with bolts and washers. Adjust knife for depth of cut with knife adjusting screws and fasten knife bolts securely.

CAUTION—When changing knives be sure to back off knife adjusting screws for proper clearance of new knife.

When cutter is shipped with table removed, be sure to fasten center brace to table with 1/2" bolts when table is installed.



(Fig. 2)

To Attach Tape-

Insert tape holder (ref. 23, fig. 5) into hole in backgage, and tape wheel support (ref. 21, fig. 5) into hole at rear end of table. Place one tape wheel (ref. 20, fig. 5) on rear tape wheel support and attach the other to arch. Be sure to place tape indicator (ref. 35, fig. 5) between tape wheel and arch before fastening tape-wheel securely. Fasten slotted hole end of tape to tape holder (ref. 23, fig. 5) with capscrew (ref. 15, fig. 5) and washer (ref. 16). Run tape around front and rear wheels and connect ends with tape equalizer (ref. 17, fig. 5).

To Square Backgage-

When necessary to square backgage to knife, while facing the rear of cutter, loosen the right hand nut and tighten the left hand nut to advance left end of backgage — vise versa to advance right end of backgage.

(Continued on Page Two)

INSTALLATION AND OPERATING INSTRUCTIONS

(Continued from Page One)

To Adjust Knife-Bar Gibs-

Be sure that knife-bar is directly back of screw being adjusted, i. e., knife-bar should be at top position when adjusting top screws and at bottom of stroke when adjusting bottom screws otherwise gibs may be adjusted too tight and result in the scoring of knife-bar and gibs.

Keep Knife Sharp-

Under normal operating conditions a knife should be sharpened after eight hours use. If the knife is not nicked it can be honed to a fine edge as follows: Place knife on cutter table, flat side down having the edge protrude ¼ inch beyond edge of table—with a hone held flat against the bevel and using a circular motion hone uniformally across the full length of the knife. If knife is nicked it must be ground before honing.

Oil All Bearings

Oil every part that moves when cutter is in operation.

Look for all oil holes and make sure that they are not clogged with dirt. Knife-bar should be carefully wiped and the ends that slide in the frames should be lubricated lightly on both sides with lubriplate or any similar lubricant.

SECTION II.

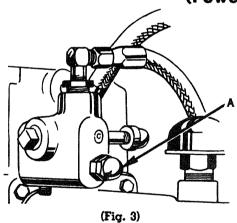
KNIFE CONTROL ADJUSTMENT

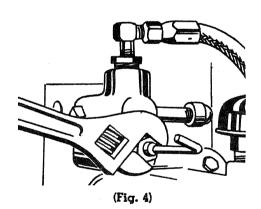
If the control levers do not return to neutral position after knife bar completes its cutting cycle the hydraulic unit will be noisy and will overheat. This condition will also cause the clamp to creep down when motor is running idle.

To remedy this run the knife bar to the table and shut off the power. Remove the release lever No. 4037 by unscrewing shoulder screw No. 5-6-75. NOTE — Be sure to replace the release lever with the same top side up as when taken off. Pull out the adjusting assem. No. 3A-3012-1. Insert a pin wrench in the hole provided, unlock the lock nut and lengthen the threaded rod No. 4057 one half turn. Secure the lock nut and re-assemble the parts in their positions and try the controls under power. NOTE — If you lengthen the pin rod No. 4057 on the adjusting assem. No. 3A-3012-1 too much the control levers will by-pass neutral and bounce.

STYLE "B" HYDRAULIC UNIT

(Power Clamp and Knife)





To increase clamp pressure, remove cap "A" (Fig. 3), and loosen Jam Nut as shown, turn Allen Screw clockwise. To reduce pressure, turn screw counterclockwise.

After pressure is adjusted, be sure to tighten jam nut (Fig. 4), and replace cap securely to prevent oil leakage. When changing the pressure setting be sure to apply pressure to the clamp otherwise gage will not register. The Hydraulic Unit is filled with 10 quarts of oil when it leaves the factory and should be checked every week. If the oil level drops to add mark on oil gage attached to breather cap, add one pint of MIL-H-5606, Military

Symbol OHA.

The Hydraulic Unit should be drained and refilled with fresh oil every 1,000 hours of operation or once a year, whichever occurs first.

Page Two

SECTION III.

TROUBLESHOOTING

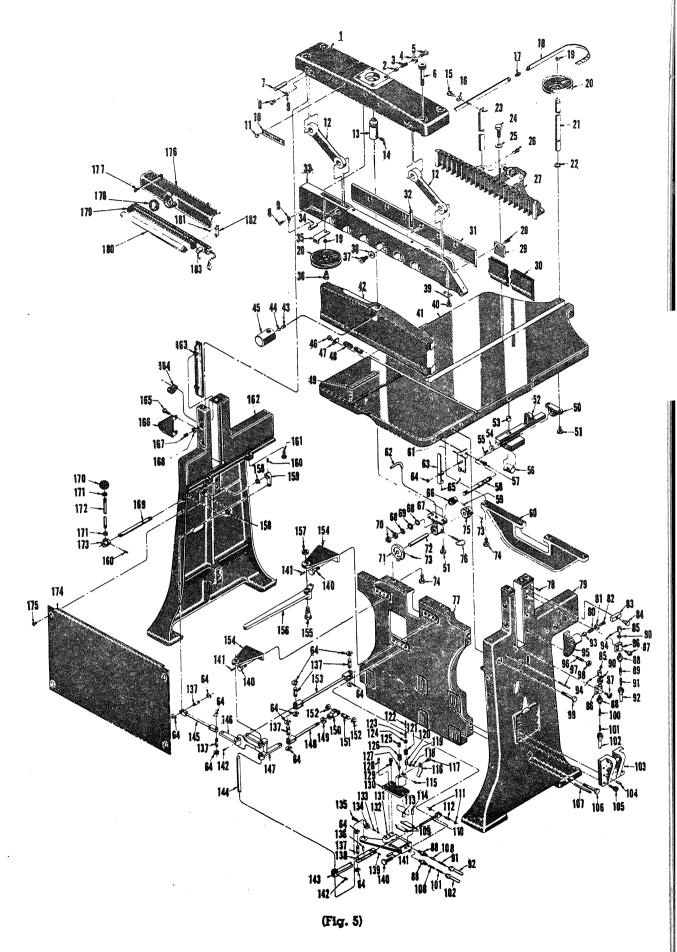
TROUBLE	PROBABLE CAUSE	REMEDY		
Operating Lever does not return to starting position Motor Overloads	Knife-bar Controls are out of adjust- ment.	See paragraph 4, page two for instruc- tion regarding correct setting.		
Widter Overloads				
Pump not delivering oil	Unit not driven in direction indicated by arrow.	Must be reversed immediately to pre- vent seizure of pump due to lack of oil.		
Pump not delivering sufficient power	Not enough oil in tank.	Add oil as necessary.		
Clamp fails to hold pressure	Defective Check Valve.	Replace Head of Hydraulic Unit.		
Pump noisy and sluggish	Partially clogged filter.	Remove and clean filter thoroughly.		
Inaccurate Cutting	Too much side play in Knife-Bar.	Adjust Knife-Bar Gibs. See paragraph one, page two.		
Drawing of stock	Dull knife.	Use sharp knife.		
Concave Cutting— Wide ends, narrow in center	Excess moisture around edge of paper.	Store paper properly in dry location.		
Concave Cutting— Variation from top to bottom of lift	Mostly on soft stock — not firmly clamped. Knife dull or incorrectly ground.	Adjust clamp pressure, use knife that is properly ground and sharpened.		

How often do you change blades? This decision is affected by many things: Chiefly, the kind of stock being cut, but also by the quality and temper of steel in the knife blade.

Whenever possible, stocks such as gummed, antique, blotter and cover paper should be cut with a sharp knife and defer cutting of chipboard, etc., until the knife becomes dull or just prior to changing knives.

Under normal cutting operations, blade should be resharpened after eight hours use.

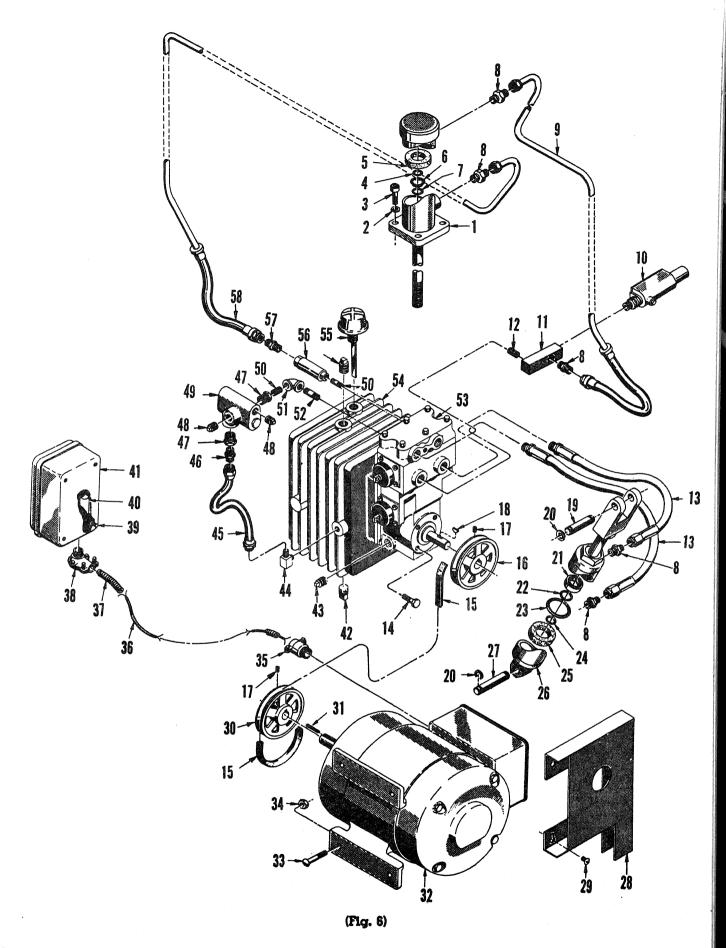
An oil rag or a piece of soap rubbed lightly along the bevel will make the knife cut easier and cleaner.



Page Four

Always Give SCRIAL NUMBER When Writing — When Ordering Parts Give PART NUMBER

ef.	Part	PART NAME	Qı	antity	Ref.			Quant
٥.	Number	FARI RAME		305	No.	Number	PART NAME	Quant
1					59	No. 2 x 1	T P'	
	87-2	Arch		1	60	2242-6	Taper Pin	
2	S-1254	Steel Plunger		i	61		Table Brace	
3	S-1255	Coil Spring	1			5A-3002	Safety Latch Knob Bracket	
4	1/2-13	Jam Nut	À	1	62	4091	Tube-Oil	
5	1/2 x 3/4	Set Screw	٢	1	63	265-3048	Safety Latch Lever	
6	1/2 x 31/2		i	1	64	S-1193-37	Retaining Ring	i 1
7		Allen Capscrew		4	65	76 x 76	Allen Set Screw	
	S-654-3	Single End Pin		2	66	4046	Pinion Gear 1 in. P. D.	
8	No. 10-24 x 3/8	Round Head Machine Screw	ļ	4	67	A-9-3	Backgage Screw Bracket	
9	S-1244	Pin-Lock		4	68	S-1295	Thrust Washer	
Ü	30-10	Name Plate		1	69	S-1300	Thrust Bearing	
3	No. 12 x 1	Brass Escutcheon Pin		2	70	S-993	Jam Nut	
2	2219	Link-Kn:fe Bar		2	71	5A-2164-1	Backgage Screw Wheel	
3	4028	Clamp Snaft Sleeve		1	72	4044	Backgage Hand Wheel Shaft	
4	38-16 x 1/6	Allen Set Screw		1	· 73	No. 6 x 134	Taper Pin	
5	¼ x ¾ .	Plated Capscrew	1	1	74	1/2 x 11/4	Capscrew	
6	1/4	Polished Washer	i	1	75	4045	Spur Gear 2 in. P. D.	
7	4 052	Tape Spring		i	76	S-653-18	Thumbscrew	
8				•	77			
	6A-4054	B. G. Tape Assembly		1		93-4H	Brace	
0	56P-25	Tapewheel	1	2	78	1/4 x 3/4	Sel-Lok Pin	
1	2298-3	Rear Tapewheel Support		l ī	79	68-9H	Side Frame R. H.	
2	S-1193-62	Retaining Ring			80	S-1255	3/8 Coil Spring	
3	2297-2	Backgage Tape Holder	1	1	81	1/2-13	Jam Nut	
4	1/2 x 11/4	Capscrew	ì		82	1/2-1	Set Screw	
5	1/2	Polished Washer	į	1	83	4037	Release Lever	1 1
6	3/8 x 1/2	Set Screw			84	5-6-75	Shoulder Screw	
7	78 × 72	Jet Screw		1	85	3A-3012-1	Release Assembly	1 1
' !	6A-2148-2	Assembled Backgage	-		86	193-3013-1	Actuator Bracket	
8	3/8-16 x 3/8			1	87	1/4 x 1	Capscrew	
	4031	Flat Head Machine Screw Cam Plate	- !	1	88	1/4	Tube Union	
5	X-661 1/2	Knife Guard	1	,	89	4057	Rod End Threaded	
	X-670		- 1		90	S-1323	Nut 10-24 Special	
,	2263-2	Knife Guard		ì	91	265- 4 062	Latch Release Wire Housing	
1	2236-2 2236-2	Knife Knife		١.	92	265-4055	Tube	
2	S-66-3	Knife Adjusting Screw		1 1	93	S-1254	Steel Plunger	
		Kille Majasting Scien		2	94	No. 6 x ⅓₂	Allen Set Screw	1 . 1
	2245-3	Knife Bar		1	95	4030 .	Plunger Bracket	
4	S-343-4	Knife Bar Stud		2	96	3/8 x 13/8	Stud	1 1
5	2207-2	Index Finger		l ī	97 98	No. 7 x 334	Taper Pin	1 1.
s i	5-6-75	Tape Wheel Stud		1	99	3/8 1/ 3	Jam Nut	1 1
7	%-16 x 1	Allen Capscrew		6		½ x 3	Capscrew	
3	3/8	Special Washer		6	101	265-4059-3	Latch Release Wire Housing	
)	1/4 × 1/2	Capscrew	I	2	102	265-4056-1	Tube Assembly	
	İ	•		-	104	3054 \$-569	Hydraulic Cylinder Bracket	
	A-71-2	Table	-	1	105	1/2 × 11/4	Taper Pin	
!			1	1	106		Allen Capscrew	'
ì	2240->	Clamp	Í	1	107	1/2 x 31/2	Capscrew	1 1 1
	36-16 × 36	Allen Set Screw		i	108	No. 8 x 21/4 4049	Taper Pin Rod End (Hardened)	
	3/8	Set Screw Button	¥	1	109	3087-1	Clevis Crank	
l	265-2113H	Clampscrew Nut	1	i	110	56A-3090-2	Valve Rod Assembly K. B.	
	38-16 x 1/2	Round Head Machine Screw	1	1	111	S-1193-25		
,	2177	Stop For Cutting Sticks		i	112	S-1096-1	Retaining Ring	
	<u>:</u> :		1		113	4088	Pin-Straight Rod End Latch Trip	
	5-143	Cutting Stick		*	114	S-773-D	Pin	
- 1	2236-1	Table Scale		1	115	No. 10-24 x 1/4	Allen Cup Point Set Screw	
	2165-4	Backgage Bracket (Rear)	1	1	116	4086	Latch Trip Spring	
	36 x 1	Capscrew		4	117	No. 10-24 x 1/4	Fillister Head Machine Screw	1 1.
- 1	A-81-2	Backgage Nut		1	118	No. 6-32 x 1/8	Allen Set Screw	
	\$-360	Steel Bushing		1	119	S-543	Straight Pin	
	3/8	Jam Nut		1.		4090	Latch Carrier	
,	% x 11/4	Set Screw	- [1	121	4087	Latch Carrier Spring	
	4051	Backgage Screw Nut	1	1	122	3014-3	Latch Release Wire	;
	1/4 x 1/2	Allen Capscraw		1	123	3015-3	Latch Release Wire Housing	
	205 2226				124	3010-1	Latch Release Stop	
	305-2226	Backgage Screw	1 .	1 1	125	1/2 x 3/8	Allen Set Screw	



Page Sia

ways Give SERIAL NUMBER When Writing —— When Ordering Parts Give PART NUMBER (Continued from Page Five)

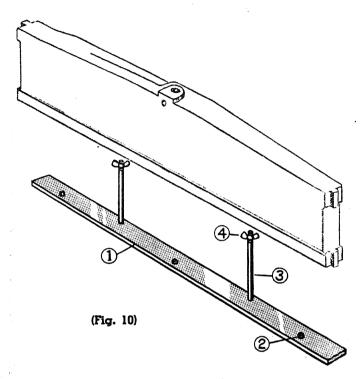
Part Number	PART NAME	Quantity	Ref.	Part Number	PART NAME	Quantity
Number		305	140.	Number		305
4085	Safety Latch Spring	1	155	S-1225	Shoulder Bolt	
4089	Safety Latch	1	156	265-3109	Clamp Control Lever	1
1/4 x 3/4	Sel-Lok Pin	2	157	5%-11	Jam-Nut	1
1/4 x 3/4	Allen Capscrew	2	158	S-1193-50	Retaining Ring	2
265-74-2	Latch Cover Plate	1	159	265-3108	Inner Control Lever	1
3017-3	Control Bracket	1	160	No. 3 x 11/2	Taper Pin	2
S-766	.250 Steel Ball	1	161	1/2 x 13/4	Capscrew	4
3047-1	Safety Latch Spring	1	162	69-7H	Side Frame L. H.	
₹ ₆ -18	Jam Nut	1	163	A-13-2	Gib	2
%-18 x 1	Set Screw	1	164	S-1298	Hose Clamp	2
S-901-D	Straight Pin	2	165	1/4 x 3/8	Plated Capscrew	1 2
S-1154-1	Pin-Straight Rod End	l i	166	56P-589	Knife Guard L. H.	1 1
5A-3083-2	Clevis Assembly	i	167	1/2 x 1	Headless Set Screw	
No. 10-24 x 1/4	Allen Cup Point Set Screw	1 1	168	1/2 '	Plated Iam Nut	4
3/2 x 1	Capscrew	6	169	265-3107	Control Shaft	i
1/4 x 1	Sel-Lok Fin	6	170	K-789	Knob	
No. 5 x 1½	Taper Pin	2	-171	3/6-24	Plated Jam Nut	
3089	Starting Lever (Lower)	1	172	3005-1	Lever Rod	1 1
3064-2	Starting Lever Shaft	1	173	193-119-1	Lever Hub	
3001-1	Starting Level Shall	'	174		mere: 1105	1
6A-3066	Lever Rod Assembly K.B.	,	1	305-79-D	Front Panel	1
3062	Starting Lever (Upper)	i	175	3%-16 x 1/2	Round Head Machine Screw	1
3063-2	Starting Lever Bell Crank	i i	176	265-398	Lampshade-Table light	' i
56A-3074-A	Valve Rod Assembly		177	412-6923	Screw Cap Hex Head 1/4-20	1 1 2
1/4-28	lam Nut	l i	178	5-8-399-A	Lens	1 1
1	Yoke	i	179	SS-980-1M	Assembly Fluorescent Unit	
S-1096-1	Pin-Straight Rod End	i	180	S-845	Lamp	
S-1193-25	Retaining Ring	2	181	83204-6922		
5A-3067-B	Lever Rod Assembly		182	S-1152	Screw Flat Head #8-32 x 1/4	2
3065-2	Starting Lever Shaft Bracket	2	183	FS-2	Bracket-Lamp-Table Light	2
1.000	Storing Level Shall Diacket	2	103	F3-Z	Starter	1

ways Give SERIAL NUMBER When Writing — When Ordering Parts Give PART NUMBER

	Part Number PART NAME		Ref.	Part		Quantity
Number	FARI NAME	305	No.	Number	PART NAME	30
3003-4	Clamp Cylinder	1	30	S-1210-88	Sheave 1/8 Bore	
×6	Lockwasher	4	31	16 x 36 x 138	· Square Key	l i
% x 1	Allen Capscrew	4	32	EE-526-2	Motor	;
3003-4-3748	"O" Ring	2	33	3/8-16 x 23/4	Bolt	4
3003-3-2865	"U" Cup	2	34	3∕8-16	Nut	4
3003-3-1388-4	"V" Packing, 2 Leather, 2 Synthetic	4	35	E-512	1/2 Straight Conduit Connector	
9P-630-B-2118	Rod Wiper	1	36	3030-64	Motor Wire	;
S-1064	Male Coupling	5	37	E-650-45	Flexible Conduit	;
265-3035-2	Pressure Tube	1	38	K-504	1/2 x 90° Angle Conduit Connector	i
305-3035-2	Pressure Tube	1	39	No. 10 x 3/8	Round Head Machine Screw	4
8P-629-A	Pressure Gage	1	40	E-510-N	Heater Element	2
4050	Oil Manifold	1	41	E-503-M	Manual Starter	1 7
S-1297	Pipe Nipple	1	42	S-749	Pipe Plug	;
265-3033-3	Knife Pressure Tube	2	43		Pipe Plug	l î
1/2 x 11/4	Capscrew	4	44	S-1085	3/8 T. x 1/4 A 90° Male Elbow	;
S-850-3	V-Belt	1	45 .	3055	Return Tube Assembly	
S-1210	Sheave 3/4 Bore		45	8-674	Male Coupling	
% × 3/8	Set Screw	2	47	S-677	1/2 - 1/4 Pipe Reducer	1
No. 9	Woodruff Key	i	48	S-748	Pipe Plug	2
S-1087-1	Pin	;	49	8P-628-C-M	Relief Valve	1
S-1193-75	Snap Ring	4	50	S-884	1/4 Pipe Nipple	1 2
17-1121	Rod Wiper		51	S-882-1	1/4 Elbow	-
17-4-1020-4	"V" Packing, 2 Leather, 2 Synthetic	1	52	S-1264	1/4 Pipe Nipple (3" Long)	
17-1866-12	"O" Ring	1 7	53	B3021M-3	Power Pack	
17-1820-19	"O" Ring	2	54	3059-2	Tank	;
17-4-2543-1	"U" Cup	2	55	8P-684	Breather Cap	
265-17-4	Hydraulic Knife Cylinder	1	56	4061		!
S-1095-3	Pin		57	S-1289	Flow Regulator]
5A-4023	Belt Guard Assembly		58	265-3036-2	Male Coupling Lift Tube	1
36-16 x 1/2	Round Head Machine Screw	2	ا	305-3036-2	Lift Tube	

Pages 8 through 13

ACCUSSORUES



FALSE CLAMP PLATE ATTACHMENT

A smooth flat plate that attaches to the bottom of the clamp to prevent the clamp from marking stock when cutting. Especially designed for use when cutting soft stock such as mimeograph, blotter, cover, etc., and to reduce offsetting when trimming carbonized forms.

False Plate is easily removed when necessary to gage to less than two inches.

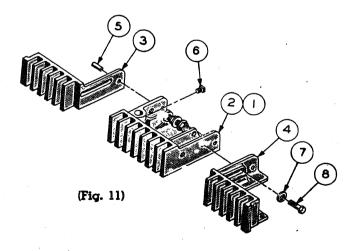
Ref.	Part	Part PART NAME				
No.	Number	PARI NAME		305		
	6A-2234	False Clamp Plate Assembly		l		
1	2231	Clamp Plate		ΝP		
2	5-6-7-40-B	Dowel Pin		3		
3	2232	Tie Rod		2		
4	4-6425	Wing Nut		2		

SPLIT BACK GAGE

Three section gage designed primarily for book trimming. Three piles of stock can be cut at one time by splitting this gage and adjusting each section to fit the job. A time-saver when trimming quantity lots of books or pamphlets.

Ref.	Part	PART NAME	Quantit	y Req'd
No.	Number	PART NAME		305
		<u> </u>		
	305B-3023-1	Split Back Gage Assembly		1
2	•	Split Back Gage Center		
		Assembly		NP
3	*	Split Back Gage, Left Hand		NP
4	*	Split Back Gage, Right Hand		NP
5	S-569	Taper Pin, No. 8 x 13"		2
6	3 x 3	Set Screw		1
7	S-353	Special Washer, ½"		4
8	1 x 11	Cap Screw		4
	1			

Note: *These parts are non-procurable (NP). Sold in assembly only.



Page Fourteen

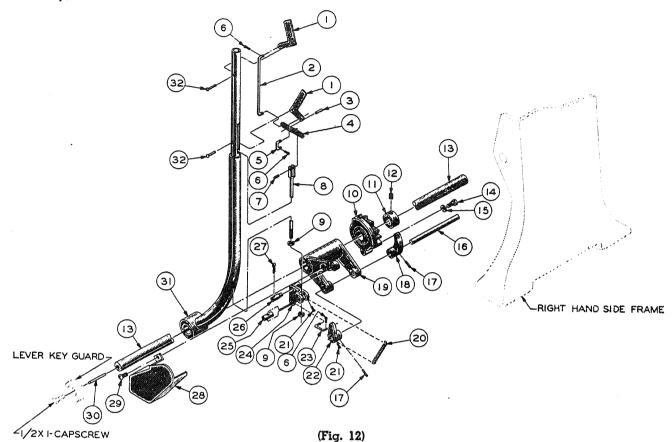
SAFETY DEVICE

CHALLENGE SAFETY DEVICE

5A-2136-1

This fool-proof device fits the Challenge 305 Lever Cutters and can be installed either at the factory when the machine is ordered or later in your plant.

Its operation is simple and positive. The moment the operator removes either hand, the lever locks automatically, and the knife can descend no farther.



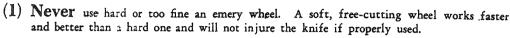
Always Give SERIAL NUMBER When Writing _____ When Ordering Parts, Give PART NUMBER

Ref	Part	PART NAME	Qua	ntity	Ref.	Part	PART NAME	Quar	ntity
No.	Number	FANT NAIVIE		305	No.	Number	PART NAME		305
1	5-2160-1	Lever Handle		2	17	No. 3 x 1½	Taper Pin		2
2	5-2135-1	Connecting Rod (Long)		1	18	5-2155	Pawl		1
3	S-668	No. 2 x 1 Taper Pin		2	19	5-2138	Pawl Bracket		1
4	5-2161	Connecting Rod Bar		1	20	H-561	Spring (Feed Guide Stop)		1
5	5-2163-1	Connecting Rod (Short)		1	21	1 x 3 €	Round Head Mach. Screw		2
6	S-669	¾ x ½ Cotter Pin		6	22	5-2154	Pawl Lever		1
7	S-667	1 x 1 Pin		- 1	23	5-2158	Pawl Lever Link		1
8	5A-2102	Assem. Adjust'g Conn. Rod		1	24	5-2139	Bell Crank		1
9	1	Nut		2	25	5-2162	Swivel Stud		1
10	5-2137	Ratchet		1	26	5-2156	Bell Crank Stud		1
11	S-390-1	Lever Shaft Collar		1	27	a x l	Cotter Pin		1
12	3 x 3	Allen Set Screw		1	28	5-2114	Guard		1
13	5-2209-2	Lever Shaft		1	29	1 x 3	Round Head Mach. Screw		2
14	1 x 11	Cap Screw		2	30	S-665	% x ⅔ x 2⅔ Straight Key		1
15	$\frac{1}{2}$	Lock Washer (Heavy Type)		2	31	5A-46-3	Lever		1
16	5-2157	Pawl Shaft		1	32	S-670	½ x ¾ Round Head Rivet		2

SECTION VI.

GRINDING PAPER CUTTER KNIVES

ORE paper knives are ruined by grinding than in any other way. Although steel is a hard substance, it is delicate when it comes to grinding. Like any other product, a knife must be cared for properly if good results are expected and costs kept down. It is well to bear the following points in mind when grinding a paper knife.



(2) Grind slowly, using plenty of water. Make sure the water is free of oil and grease.

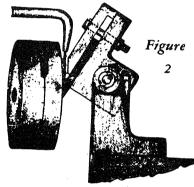
(3) Do not force the knife against the wheel too hard. Never speed the wheel too fast, for the wheel will not cut but glaze, thus drawing the temper.

The most important point in grinding knives, and one which many do not consider, is that the knife should be ground with the cutting edge "up," and grinding should be done from the edge to the heel of the knife. In this manner, less friction results and burning is eliminated

Figure 1

Figure No. 1, accompanying, shows this. Notice that the water flows on the cutting edge. Figure No. 2, on the other

hand, shows the knife being ground with the cutting edge down. Notice that the water flows on the back of the knife. This is urong. The particles of steel are forced between the grinding wheel and the cutting edge of the knife. Friction results. The water cannot run in and wash away the fine particles of steel, nor keep the edge cool. It will pay every printer to insist on his paper knives being ground in the manner illustrated in Figure No. 1. It will eliminate burning and assure maximum service from each knife.



It is not always necessary to send a knife to a grinder. If it has no nicks, hone it. Take it out of the machine. Place it on a table with flat side down, having the edge of knife protrude beyond the edge of table approximately \(\frac{1}{4}''\) — then with a flat oil stone you can readily hone it to a fine edge. If it is nicked, it must then be reground and after being ground, must be carefully boned before being put back into the cutter.

The bevel at which a knife should be ground is 23 degrees. If you are not supplied with the necessary instruments for ascertaining the degree of bevel, it may be easily checked up, as when correctly ground the bevel of a knife 3/8 inch thick will measure 61/64 inch; on a knife 7/16 inch thick, 1 and 1/8 inch; on a knife 1/2 inch thick, 1 and 17/64 inch; and on one 5/8 inch thick, 1 and 39/64 inch.

Never run homing stone on edge to remove burr.

Never hone back or flat of knife.

Every tir the knife a ground it becomes a little narrower and should be set by means of the adjusting screws on top of the knife bar. All Challenge Cutter knives have two rows of holes for the knife bolts.

Wheels!

We recommend the following wheels for use when grinding paper knives. AA-60-H8-V40 Fine Finish or AA-36-18-V40 High Stock Removal.

APPENDIX A

BASIC ISSUE ITEMS LIST

Section 1. INTRODUCTION

A-1. Scope

This appendix lists items which accompany the paper cutter or are required for installation, operation, or operator's maintenance.

A-2. General

This Basic Issue Items List is divided into the following sections:

- a. Basic Issue Items -- Section II. A list of items which accompany the paper cutter or are required for the installation, operation, or operator's maintenance.
- <u>b.</u> <u>Maintenance and Operating Supplies -- Section III. A listing of maintenance and operating supplies required for initial operation.</u>

A-3. Explanation of Columns

The following provides an explanation of columns in the tabular list of Basic Issue Items, Section II.

a. Source, Maintenance, and Recoverability Codes (SMR), Column 1.

Note: Common hardware items known to readily available in Army supply will be assigned Maintenance Codes only. Source codes, Recoverability codes, and Quantity Authorized will not be assigned to this category of items.

(1) Source code, indicates the selection status and source for the listed item. Source codes are:

Code

Explanation

- P Applied to repair parts which are stocked in or supplied from GSA/DSA or Army supply system, and authorized for use at indicated maintenance categories.
- M Applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.

Explanation

- A Applied to assemblies which are not procured or stocked as such, but made up of two or more units each of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
- Applied to parts and assemblies which are not procured or stocked, the mortality of which is normally below that of the applicable end item, and the failure of which should result in retirement of the end item from the supply system.
- Applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of the next higher assembly or components.
- Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
- Applied to repair parts authorized for local procurements. If not obtainable from local procurement, such repair parts ...ll be requisitioned through normal supply channels with a supporting statement of non-availability from local procurement.
- G Applied to major assemblies that are procured with PEMA (Procurement Equipment Missile Army) funds for initial issue only to be used as exchange assemblies at DSU and GSU level or returned to depot supply level.
- (2) Maintenance Code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level code is:

Code

Explanation

)

Operator/crew

(3) Recoverability Code, indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

Explanation

- R Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and are normally furnished by supply on an exchange basis.
- T Applied to high dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts are normally repaired or overhauled at depot maintenance activities.
- U Applied to repair parts specifically selected for malvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings or castangs.
- b. Federal Stock Number, Column 2. This column indicates the Federal stock number for the item.
- c. Description, Column 3. This column indicates the Federal item name and any additional description of the item required. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in kits, sets, and assemblies are shown in front of the repair part name.
- d. Unit of Issue, Column 4. This column indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.
- e. Quantity Incorporated in Unit, Column 5. This column indicates the quantity of the item used in the functional group.
- f. Quantity Furnished With Equipment, Column 6. This column indicates the quantity of an item furnished with the equipment.
 - g. Illustration, Column 7. This column is divided as follows:
- (1) Figure Number, Column 7a. Indicates the figure number of the illustration in which the item is shown.
- (2) Item Number, Column 7b. Indicates the callout number used to reference the item in the illustration.
- A-4. Explanation of Columns in the Tabular List of Maintenance and Operating Supplies -- Section III.
- a. Component Application, Column 1. This column identifies the component application of each maintenance or operating supply item.

- b. Federal Stock Number, Column 2. This column indicates the Federal stock number for the item and will be used for requisitioning purposes.
- c. Description, Column 3. This column indicates the item and brief description.
- d. Quantity Required for Initial Operation, Column 4. This column indicates the quantity of each maintenance or operating supply item required for initial operation of the equipment.
- e. Quantity Required for 8 Hours Operation, Column 5. This column indicates the estimated quantities required for an average eight hours of operation.
- f. Notes, Column 6. This column indicates informative notes keyed to data appearing in a preceding column.
- A-5. Federal Supply Code for Manufacturers

Manufacturer

11444

Challenge Machinery Co.

		SECTION II. BASIC	ISSUE IT	EMS	aggantage-parker (SCA) (CA)	ambananskur 4.55 veter, ame b	and the second s	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	§	
SMD	FEDERAL STOCK	DE SCRIPTION			QTY INC	QTY FURN		
SMR CODE	NUMBER	REF NO. & MFR	USABLE	OF MEAS	IN	WITH	(A) FIG	(B) ITEM
		1121 1131 3 1111 11	ON CODE	MEAS	TINU	EQUIP	NO.	NO.
		31 - BASIC ISSUE ITEMS FACTURER INSTALLED	mahu-					
		3100 - BASIC ISSUE ITEM MANUFACTURER OR DEPOT I STALLED						
	·	DA TECHEICAL MANUAL TM 5-3610-245-13 32 - BASIC ISSUE ITEMS INSTALLED	TROOP	EA		1		
		3200 - BASIC ISSUE ITE TROOP INSTALLED OR AUT				Control Over the Control of the Cont		
PC	3610-116-6932	GUARD, KNIFE		EA		1		
PC	3610-116-6933	KNIFE, CUTTER		EA		1		
PC	3610-777-5460	HOOK, STICK EXTRACTOR 5064 (1144)	4)	EA		1		
PC	3610-777-5427	LIFTER, KNIFE SS-1245-1	(11444)	EA		2		
PC	5120-222-8852	SCREWDRIVER: FLAT TIP IN. WIDE TIP, HANDLE LONG		EA		1		
PC	3610-116-6935	STICK, CUTTING		KA		3		
PC	5120-449-8083	WRENCH: OPEN END, ADJ 1-1/8 IN. X 10 IN. I		EA		1		
PC	5120-277-2307	wrench: open double in 5/16 in. x 3/8 in.	ŒAD	EA		1		-
PC	3610-777-5470	WRENCH: "T" HEX 5/16 9-1/4 IN. LONG W-164 (114		R.		1		

	(6) NOTES	
SUPPLIES	(5) QUANTITY REQUIRED F/8 HRS OPERATION	
OPERATING	(4) QUANTITY REQUIRED F/INITIAL OPERATION	10 gis
SECTION III. MAINTENANCE AND OPERATING SUPPLIES	(3) DESCRIPTION	Hydraulic Fluid, Petroleum Base MIL-H-5606 Military Symbol OHA
SE	(2) FEDERAL STOCK NUMBER	9150-252-6383
	(1) COMPONENT APPLICATION	Hydraulic System

4

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. General

- a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.
- b. Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.
 - c. Section III not applicable.
- <u>d</u>. Section IV contains supplemental instructions, explanatory notes and/or illustrations required for a particular maintenance function.
- B-2. Explanation of Columns in Section II
- a. Group Number. Column 1. The functional group is a numerical group set up on a functional basis. The applicable functional grouping indexes (obtained from TB 750-93-1, Functional Grouping Codes) are listed on the MAC in the appropriate numerical sequence. These indexes are normally set up in accordance with their function and proximity to each other.
- b. Functional Group. Column 2. This column contains a brief description of the components of each functional group.
- c. Maintenance Functions. Column 3. This column lists the various maintenance functions (A through K) and indicates the lowest maintenance category authorized to perform these functions. The symbol designations for the various maintenance categories are as follows:
 - C Operator or crew
 - 0 Organizational maintenance
 - F Direct support maintenance

The maintenance functions are defined as follows:

- A INSPECT. To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.
- B TEST. To verify serviceability and to detect electrical or mechanical failure by use of test equipment.
- C SERVICE. To clean, to preserve, to charge, to paint, and to add fuel, lubricants, cooling agents, and air.
- D ADJUST. To rectify to the extent necessary to bring into proper operating range.
- E ALIGN. To adjust specified variable elements of an item to bring to optimum performance.
- F CALIBRATE. To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.
- G INSTALL. To set up for use in an operational environment such as an emplacement, site, or vehicle.
- H REPLACE. To replace unserviceable items with serviceable assemblies, subassemblies, or parts.
- I REPAIR. To restore an item to serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.
- J OVERHAUL. To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards using the Inspect and Repair Only as Necessary (IROAN) technique.
- K REBUILD. To restore an item to a standard as nearly as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.
 - d. Tools and Equipment. Column 4. This column is provided for

referencing by code the special tools and test equipment, (Section III) required to perform the maintenance functions (Section II).

- e. Remarks. Column 5. This column is provided for referencing by code the remarks (Section IV) pertinent to the maintenance functions.
- B-3. Explanation of Columns in Section IV
- a. Reference Code. This column consists of two letters separated by a dash, both of which are references to Section II. The first letter references column 5 and the second letter references a maintenance function, column 3, A through K.
- b. Remarks. This column lists information pertinent to the maintenance function being performed, as indicated on the MAC, Section II.

						The County of th
(5)	REMARKS				⋖	
(4)	TOOLS AND	EQUI PMENT				
	×	BOILD				
	H	PATR				
SN		aoa.rq	1 44	陶 陶 数00 购	B 4	Fig. Sty. O
FUNCTIONS	H U	JIATS		NOCH	fine fine fine fi	4 B4 B4 O
3) FUN		LIBRATE	AD			
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×	0				0	
	m		AT	and the same of th		
	⋖	SPECT	NI vv	000	0 000	0000
(2)	FUNCTIONAL GROUP		BODY, CAB, ROOD AND HULL Guard, Belt Panel, Front	ELECTRIC NOTORS AND GENERA- TORS Motor, Drive Pullies, Drive Belt, Drive Starter, Menual	HIDRAULIC, FIMID, AIR AND VACUUM SISTEM Tubes, Hydraulic and Fittings Fump, Hydraulic Yalve, Relief	Cylinder; Knife Cylinder; Knife Cylinder; Clamp REPRODUCTION EQUIPMENT COMPONENTS Tape Indicator Assy
(7)	•(GEOUP NO	87	04	£.	65

SECTION II - MAINTENANCE ALLOCATION CHART

FOR

			T							
(5)	REMARKS								·	
(†)	TOOLS AND	EQUIPMENT								
	×	BEBLILD								
	H	JUAHATEVO								-
		REPAIR	:							
,		REPLACE		A O	0			 		
ION	Ħ			NO	900					
INCI	U	TIATENI								
MAINTENANCE FUNCTIONS	Ē	CALIBRATE								
NAN	ы	ALIGN								
NTE	А	TEULGA		00	00					
MA	υ	SEKAICE								
	В	Test				-		 		
		INSPECT				· · · · · · · · · · · · · · · · · · ·		 		
Ш			ļ		000					
(5)	FUNCTIONAL GROUP		REPRODUCTION EQUIPMENT CONTROLLIA)	Back denge Assy Pressure Clamp Assy	Inite, Outter Memual Control Assy					
(F)	*O	GROUP I	65							

SECTION 1V

REFERENCE CODE	REMARKS								
A-C	Pump, Hydraulic Drain and refill with fresh oil every 1,000 hours of operation or once a year, whichever occurs first.								

APPENDIX C

MISSION ESSENTIAL REPAIR PARTS

Section I. INTRODUCTION

C-1. Scope

This appendix lists repair parts, special tools, test and support equipment required for the performance of organizational and direct support maintenance of the paper cutter.

C-2. General

This Repair Parts and Special Tools List is divided into the following sections:

- a. <u>Prescribed Load Allowance (PIA) Section II</u>. A consolidated listing of repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level.
- b. Repair Parts Section III. A list of repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.
 - Group 40. Electrical Motors and Generators
 - Group 43. Hydraulic, Fluid, Air and Vacuum System
 - Group 65. Reproduction Equipment Components
- c. Special Tools, Test and Support Equipment Section IV. Not applicable
- d. Repair Parts Section V. A list of repair parts authorized for the performance of maintenance at the direct support level in figure and item number sequence.
 - Group 40. Electrical Motors and Generators
 - Group 43. Hydraulic, Fluid, Air and Vacuum System
 - Group 65. Reproduction Equipment Components

- e. Special Tools, Test and Support Equipment Section VI.
 Not applicable
- f. Federal Stock Number and Reference Number Index Section VII. A list of Federal stock numbers followed by reference numbers, appearing in all the listings, in ascending alpha-numeric sequence cross-referenced to index number.

C-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in sections II through VI.

- a. Source, Maintenance, and Recoverability Codes (SMR).
- (1) Source code, indicates the selection status and source for the listed item. Source codes are:

Code Explanation

- P Applied to repair parts which are stocked in or supplied from DSA/GSA or Army supply system, and authorized for use at indicated categories.
- M Applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
- Applied to assemblies which are not procured or stocked as such but made up of two or more units, each of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
- Applied to parts and assemblies which are not procured or stocked, the mortality of which is normally below that of the applicable end item, and the failure of which should result in retirement of the end item from the supply system.
- Applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of the next higher assembly or components.
- Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if

Explanation

not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.

- Applied to repair parts authorized for local procurements. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
- Applied to major assemblies that are procured with PEMA (Procurement Equipment Missile Army) funds for initial issue only to be used as exchange assemblies at DSU and GSU maintenance level. These assemblies will not be stocked above DSU and GSU level or returned to depot supply level.
- (2) Maintenance code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:

Code

Explanation

O Organizational maintenance
F Direct support maintenance

(3) Recoverability code, indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

Code

Explanation

- Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.
- Applied to high dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
- U Applied to repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings or castings.

- (4) This column also lists, below the SMR code, an index number for each item in ascending numerical sequence, which is used to locate items in the publication when the Federal stock number and/or reference number is known.
- b. Federal Stock Number. This column indicates the Federal stock number for the item and will be used for requisitioning purposes.
- c. <u>Description</u>. This column indicates the Federal item name and any additional description of the item required. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in the kits, sets, and assemblies are shown in front of the repair part name.
- d. Unit of Measure (U/M). A 2 character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ea, pr, ft, yd, etc.
- e. Quantity Incorporated in Unit. This column indicates the quantity of the item used in the functional group.

f. 15-Day Organizational Maintenance Allowances

- (1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have no entry in the allowance columns but will have in the description column a reference to the first appearance of the item. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.
- (3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the

number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to U. S. Army Mobility Equipment Command for exception or revision to the allowance list. Revisions to the range of items authorized will be made by this Command based upon engineering experience, demand data, or TAERS information.

g. Thirty-Day DS Maintenance Allowances

- (1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have no entry in the allowance column, but will have in the description column a reference to the first appearance of the item. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for DS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.
- (3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.
- h. One-Year Allowances Per 100 Equipments/Contingency Planning Purposes. Indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

i. Illustration.

- (1) Figure Number. Indicates the figure number of the illustration in which the item is shown.
- (2) Item Number. Indicates the callout number used to reference the item in the illustration.
- C-4. Special Information Not applicable
- C-5. How to Locate Repair Parts
 - a. When Federal Stock Number or reference number is unknown:
- (1) First. Using the table of contents, determine the functional group within which the repair part belongs. This will refer to a page in the parts listing.
- (2) Second. The illustration column of the page refers to a figure number.
- (3) Third. Locate the figure and identify the repair parts, noting the item number.
- (4) Fourth. Refer back to the page of the parts listing. Find the item number in the illustration column that corresponds with the figure number.
 - b. When Federal Stock Number or reference number is known:
- (1) First. Using the Index of Federal Stock Numbers and Reference Numbers, find the pertinent Federal stock number or reference number. This index is in ascending alphanumeric sequence cross-referenced to an index number.
- (2) <u>Second</u>. Using the Repair Part Listing, find the index number referenced in the Index of Federal Stock Numbers and Reference Numbers.

Manufacturer

C-6. Abbreviations Not applicable

Code

C-7. Federal Supply Codes for Manufacturers

11 4 44	Challenge Machinery Co., The
24455	General Electric Co., Lamp Div.
6 2983	Vickers Inc. of Sperry Rand Corp.

	SECTION II PRESCRIBED LOAD ALLOWANCE				
(1)	(2)	15.04	(; \Y ORG	3)	AI W
FEDERAL	DESCRIPTION.	(A)	(B)	(C)	(D)
STOCK NUMBER	useable on code	1-5	6-20	21-50	51-100
	GROUP 40 - ELECTRIC MOTORS AND GENERATORS				
	4007 - DRIVE COMPONENTS				
3030-956- 9166	BELT, V		2	2	4
	GROUP 65 - REPRODUCTION EQUIPMENT COMPONENTS				
	6500 - PAPER CUTTER, GUILLOTINE		ACAM CONTRACTOR CONTRA		
3610-116- 6930	SPRING, TAPE				2
3610-116- 6931	TAPE ASSEMBLY, BACKGAGE				2
3610-116- 6932	GUARD, KNIFE				2
3610-116- 6933	KNIFE, CUITER	2	3	6	13
3610-116- 6934	WASHER, SPECIAL		2	2	- 4
3610-116- 6935	STICK, CUTTING	8	20	40	50
3610-116- 6936	LEVER, SAFETY LATCH				2
3610-116- 6941	LAMP			2	2
3610-117- 2442	LINK, KNIFE BAR				2
3610-956- 9164	SPRING, COIL				2
			<u></u>	<u></u>	<u></u>

	SECTION II PRESCRIBED LOAD ALLOWANCE	 			
(1)	(2)	T	(3)	
FEDERAL	DESCRIPT.ON	15-DA (A)	Y ORG	MAINT.	
STOCK NUMBER	useable on code	1-5	(B) 6-20	(C)	(D)
		1-3	6-20	21-50	51-100
	6500 - PAPER CUTTER, GUILLOTINE (Comt'd)				
5305-110- 9517	SCREW, KRIFE ADJUSTING			2	2
5305-978- 9394	SCREW, CAP, ALLENHEAD, 3/8-16 thd, 1 in. 1g.		2	2	4
6250-299- 2884	STARTER			2	2
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(2)	DESCRIPTION		REFERENCE NO. & MFR. CODE	SECTION 111 - REPAIR PARTS FOR OF . T. " "AL HAINTENANCE	GROUP 40 - ELECTRIC MOTORS AND GENERATORS	BELT, V \$850-3 (11444)	GROUP \$3 - HYDRAULIC, FLUID, AIR AND VACULM SYSTEM	CAP, BREATHER BPGB (11444)	GROUP 65 - REPRODUCTION EQUIPMENT COMPONENTS	SPRING, COIL S1255 (11444)	LINK, KNIFE, BAR 2219 (11444)	SPRING, TAPE AOSE (11444)	TAPE ASSEMBLY, BACK GAGE 6alo54 (11444)	GLARD, KNIFE X670 (11444)	NIFE, CUTTER 2238-2 (11444)	SCREW: RHIFE ADJUSTING 2266-3 (11444)	SCREW, CAP, ALLEN HEAD: 3/8-16 THD BIZE, 1 IN. LG	WASHER, SPECIAL 3-8 (11444)
8	FEDERAL STOCK	MOMOEK				3030-956-9166		3610-116-6942	·	3610-956-9184	3610-117-2442	3610-116-6930	3610-116-6931	3610-116-6932	3610-116-6933	5305-110-9517	5305-978-939 ⁴	.3610-116-6934
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(3)	DESCRIPTION		REFERENCE NO. & MFR. CODE	SECTION V - REPAIR PARTS FOR DS MAINTENANCE	GROUP 40 - ELECTRIC MOTORS AND GENERATORS	BELT, V \$850-3 (11444)	MOTOR, DRIVE EE526-2 (11444)	ELEMENT HEATER E510N (11부부)	STAFTER, MANUAL E5034 (11444)	GROUP 43 - HYDRAULIC, FLUID, AIR AND VACUUM SYSTEM	CYLINDER, CLAMP 3003-4 (11444)	TUBE, PRESSURE 305-3035-2 (11444)	GAGE, PRESSURE BPG29A (11444)	TUBE, PRESSURE, KNIFE 265-3033-3 (11444)	CYLINDER, HYDRAULIC KNIFE 265-17-4 (11444)	KIT, SERVICE CYLINDER CLAMP 3003-4-17480 (11444)	KIT, SERVICE, CYLINDER KNIFE 265-17-4-17556 (11444)	TUBE ASSEMBLY; RETURN 3055 (11444)	
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ı.	3610-116-6937	WIRE HOUSING, LATCH RELEASE 265-4062 (11444)	EA			*	α	8	15	2	9
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d.	3610-117-2448	SPRING, LATCH CARRIER	EA		*	*	2	N .	12	2	Sign
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By Order of the Secretary of the Army:

W. C. WESTMORELAND, General, United States Army, Chief of Staff

Official:

KENNETH G. WICKHAM, Major General, United States Army, The Adjutant General.

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